

Table 1: Significance table.

	Events _a fter _a lphat _a nd _P FDL _c uts	Events _a fter _a lphat _a nd _D L _c uts	Events _a fter _a lphat _r e _a nd _P FDL _c uts	Events _a fter _a lphat _r e _a nd _D L _c uts
QCD _{Pt15}	0 +- 0	0 +- 0	0 +- 0	0 +- 0
QCD _{Pt30}	387.2 +- 387.2	0 +- 0	387.2 +- 387.2	0 +- 0
QCD _{Pt80}	135.9 +- 36.32	9.707 +- 9.707	126.2 +- 35	0 +- 0
QCD _{Pt170}	63.06 +- 4.149	5.187 +- 1.19	60.33 +- 4.058	2.184 +- 0.7722
QCD _{Pt300}	19.78 +- 0.5062	0.9844 +- 0.1129	17.89 +- 0.4814	0.544 +- 0.08395
QCD _{Pt470}	2.684 +- 0.06078	0.004129 +- 0.002384	2.388 +- 0.05733	0.002753 +- 0.001946
QCD _{Pt800}	0.09518 +- 0.001797	0 +- 0	0.08321 +- 0.00168	0 +- 0
QCD _{Pt1400}	0.0005988 +- 1.385e-05	0 +- 0	0.0005324 +- 1.306e-05	0 +- 0
TTbar _t emp	6.626 +- 0.1595	1.92 +- 0.08585	4.469 +- 0.131	1.11 +- 0.06527
WJets _t emp	9.102 +- 0.86	3.007 +- 0.4943	7.72 +- 0.7921	2.357 +- 0.4376
ZJets _t emp	0.9736 +- 0.27	0.07489 +- 0.07489	0.8987 +- 0.2594	0.07489 +- 0.07489
ww _p at ₁	0.3469 +- 0.05171	0.08479 +- 0.02556	0.3083 +- 0.04875	0.06166 +- 0.0218
wz _p at ₁	0.1294 +- 0.01973	0.09931 +- 0.01729	0.1204 +- 0.01903	0.08125 +- 0.01564
zz _p at ₁	0.03613 +- 0.006021	0.03713 +- 0.006104	0.0291 +- 0.005404	0.03011 +- 0.005497
LM10 _t emp	0.01384 +- 0.0003314	0.008698 +- 0.0002627	0.01025 +- 0.0002853	0.004905 +- 0.0001973
Significancy	0.0005532	0.001893	0.000416	0.001932
QCD Significancy	0.000561	0.002183	0.0004207	0.002968